Hua Power

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Hua Power

ENERGY STORAGE SOLUTION

2025

Integrated ESS Solution & Service Provider

Energy Storage Container | Commercial & Industrial ESS | Residential ESS

ZHEJIANG HUA POWER CO., LTD

SINOPOWER (SHENZHEN) CO., LTD

About HUA POWER

HUA POWER is a globally leading provider of energy storage systems and microgrid integrated solutions, headquartered in Shenzhen, China. Since its establishment in 2015, leveraging the founding team's over 12 years of technical expertise and frontline experience in the energy storage sector, the company has rapidly emerged as one of the fastest-growing enterprises in the industry. Focused on delivering efficient and intelligent energy storage system integration services worldwide, HUA POWER specializes in energy storage system R&D, microgrid design, and integration, with distinct advantages in European grid frequency regulation and industrial/commercial uninterrupted power supply.

Technological DNA & Innovation

The founding team comprises global pioneers in energy storage product development, who have spearheaded the formulation of multiple domestic industry standards. With 45% of its workforce dedicated to R&D-including PhDs, overseas-trained technical experts, and senior engineers-HUA POWER has developed core innovations in fields such as Smart Battery Management Systems (Smart BMS), Energy Management Platforms (EMS), and millisecond-level grid response algorithms.

Market Positioning & Core Competencies

As an energy storage microgrid integrator, HUA POWER offers full-scenario solutions:

- Grid Frequency Regulation: Has led over 10 frequency regulation projects in Europe, achieving a response speed of <30ms and an accumulated capacity exceeding 100MWh, enhancing grid stability and renewable energy integration.
- Industrial/Commercial Power Assurance: Designs 7×24 uninterrupted power supply systems for data centers and Southeast Asian enterprises, achieving 99.9% availability and significantly reducing downtime losses.
- Hybrid Energy Micro grids: Integrates PV, energy storage, EV chargers, and diesel generators, successfully deploying 50+ complex-scenario projects across islands, data centers, and remote mining areas.

50000㎡+
Site Area

200+
Energy Storage Projects

1.2GWh+
Production Capacity

120+
R&D and Production Personnel

Residential BESS Solution

5/10/15kWh Wall-mounted

OTA on line

Smart CRM
Build on distributor side

Smart touch LCD
Easy to choose BMS

Easy installation, easy parallel connection,
Support to 16 units home storage in parallel

Compatible with over 20+ inverter brands ,
Growatt,Voltronic , Schneider,Victron,
GoodWe,GINLONG,SMA,PYLON,Sorotec

Model	HC5W	HC10W	HC15W
AC			
Compatible Inverter Power	5kW (For Single Module)	5kW (For Single Module)	7kW (For Single Module)
Max Charge Current	100A	100A	200A
Max Continuous Discharge Current	100A	150A	150A
Rated Voltage	51.2V	51.2V	51.2V
Recommended Charge Voltage	57.6V	57.6V	57.6V
Monitoring and Protection	Each Battery has Smart BMS, Breaker		
Battery			
Battery Type	LiFePO4	LiFePO4	LiFePO4
Battery Cell	100Ah	200Ah	280Ah
Balancing Starting Voltage	3.4V/Cell		
Resistance	≤45 mΩ @ 50% 50C		
Scalability	Up to 16 Units, Suggest 8 Units Max		
Voltage Range	43.2-57.6V		
Rated Capacity	5120Wh	10240Wh	14336Wh
System			
Weight	56kg	98kg	145Kg
Dimensions (W/D/H)	550*165*480mm	550*236*699mm	905*630*236mm
Maximum Efficiency	> 96%		
Protection Level	IP65		
Anti-corrosion Rating	C3+Class Anti-corrosion Battery Housing		
Terminal Type	Quick Connector		
Discharge Temperature	-20-60℃		
Charge Temperature	0-45℃		
Display	LCD		
Communication	CAN/RS485	CAN/RS232/RS485	CAN/RS232/RS485
Certification	CE/IEC62619/CEI-021/UN38.3/MSDS	CE/UN38.3/MSDS	CE/UN38.3/MSDS
Compatible Inverters	DEYE /Afore /MEGAREVO/SOLIS/Growatt /LUXPOWER/Voltronics/Goodwe/ SMA/Victron/SOROTEC/MUST/etc.		
Depth Of Discharge	90%DOD		
Cycle Life	≥6000 Cycles		

Indoor BESS

20/30/40/50/60kWh High Voltage Rack-mounted Battery

Extremely Safety

Adopts a single cluster two-level architecture, and the BMS has over-current, over-charge, over-voltage, over-temperature, and under-low protection functions.

Wide Temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

Long Cycle Life

Uses LiFePO4 Battery to meet long cycle life applications and safer using.

Easy to Install & Maintain

Modular design & standard chassis structure.

Intelligent Control

Integrates BCU and BMU for precise battery management.

Model	HCH-20S	HCH-30S	HCH-40S	HCH-50S	HCH-60S
Battery					
Battery Type	LiFePO4				
Battery Cell	3.2V/100Ah				
Battery Pack Configuration	1P16S				
Battery Pack Quantity	4 Packs/Cluster	6 Packs/Cluster	8 Packs/Cluster	10 Packs/Cluster	12 Packs/Cluster
Rated Current	50A				
Voltage Range	172.8~230.4V	259.2~345.6V	345.6~460.8V	432~576V	518.4~691.2V
Rated Capacity	20.48kWh	30.72kWh	40.96kWh	51.2kWh	61.44KWh
System					
Weight	235kg	350kg	410kg	470kg	530kg
Dimensions (W/D/H)	560*740*950mm	560*740*1250mm	560*740*1550mm	560*740*1850mm	560*740*2150mm
Maximum Efficiency	≥96%				
Temperature	-20℃~50℃ (De-Rating Over 45℃)				
Humidity	5%~95%RH (Non-Condensation)				
Protection Level	IP20				
Anti-corrosion Rating	C1				
Cooling Method	Fan				
Attitude	2000m (>2000m Derating)				
Display	LCD				
Communication	Ethernet				
Certification	CE, UN38.3				
Charge/Discharge Rate	0.5CP				
Depth Of Discharge	90%DOD				
Cycle Life	≥6000 Cycles (80% SOH @ Standard)				

Indoor BESS

50kW/100kWh PV+Battery ESS All-in-one Indoor Cabinet

Scaled Energy Storage

LFP battery,multiple protection design
Long cycle life, slow degradation

CCS Module Design

Flexible configuration and easy expansion

Multiple Operation Modes

Supports simultaneous connections of load batteries, power grid, diesel generators, and photovoltaics

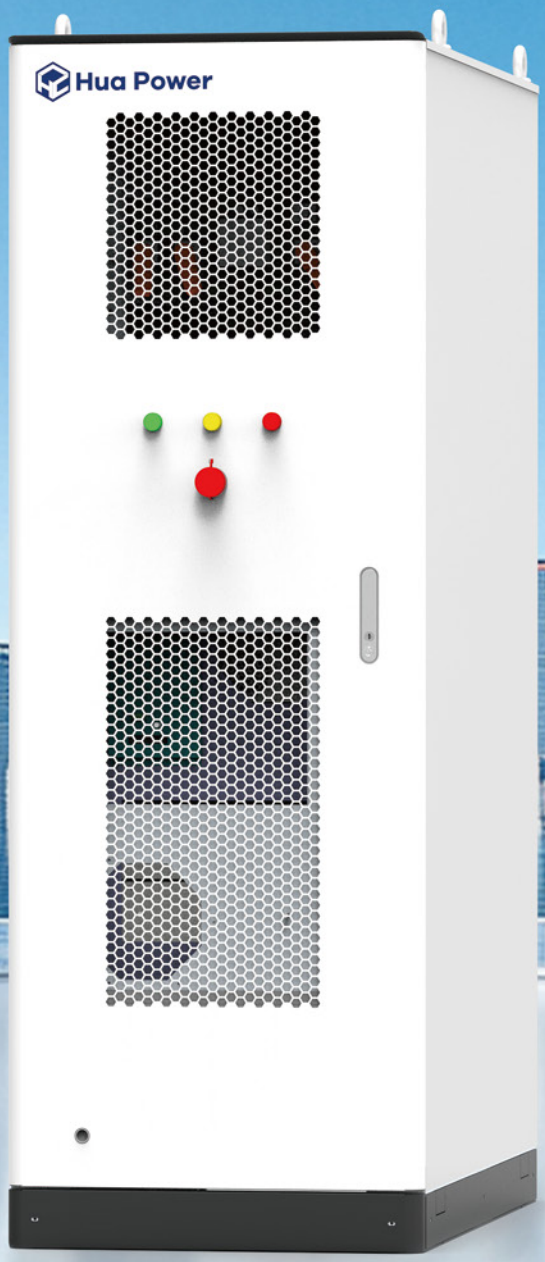
Flexible Switching Off-grid

Abundant PV+Diesel interfaces, flexible off-grid switching, easy installation

Model	HC100P-280I
AC (On-grid)	
Rated Power	50kW
Maximum Current	72A
Rated Voltage	400V
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
Power Factor	0.8 (Leading)~0.8 (Lagging)
THDi	≤3%
AC (Off-grid)	
Rated Power	50kW
Rated Voltage	400V
Maximum Current	72A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	<2%
Battery	
Battery Type	LiFePO4
Battery Cell	3.2V/280Ah
Battery Pack Configuration	1P16S
Battery Pack Quantity	7 Packs/Cluster
Rated Current	140A
Voltage Range	302.4~403.2V
Rated Capacity	100.352kWh
PV	
Max. Usable PV Input Power	96kW
Max. Input Current	40A*4
Max. Short Circuit Current	60A*4
Max. Input Voltage	1000V
MPPT Voltage Range	150V~850V
Start-up Voltage	180V
MPPT Number	4
System	
Weight	1.5T
Dimensions (W/D/H)	600*950*2000mm
Maximum Efficiency	≥85%
Temperature	-20℃~50℃ (De-Rating Over 45℃)
Humidity	5%~95%RH (Non-Condensation)
Protection Level	IP20
Anti-corrosion Rating	C1
Cooling Method	Fan
Noise	≤75dB
Altitude	2000m (>2000m Derating)
Display	LCD
Communication	Ethernet
Certification	CE, UN38.3
Charge/Discharge Rate	0.5CP
Depth Of Discharge	90%DOD
Cycle Life	≥6000 Cycles (80% SOH @ Standard)

C&I BESS Cabinet Solution

30kW/60kWh PV+Battery ESS All-in-one Cabinet



Scaled Energy Storage

LFP battery,multiple protection design
Long cycle life, slow degradation

CCS Module Design

Flexible configuration and easy expansion

Flexible Switching Off-grid

Abundant PV+Diesel interfaces, flexible off-grid switching, easy installation

Multiple Operation Modes

Supports simultaneous connections of load batteries, power grid, diesel generators, and photovoltaics

User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications

Model	HC60P-100A	HC60P-100B
AC (On-grid)		
Rated Power	30kW	
Maximum Current	43A	
Rated Voltage	400V	
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
Power Factor	1 (Leading)~1 (Lagging)	
THDi	≤3% (Rated Power)	
AC (Off-grid)		
Rated Power	30kW	
Rated Voltage	400V	
Maximum Current	43A	
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
THDu	<3% (Linear Load)	
Battery		
Battery Type	LiFePO4	
Battery Cell	3.2V/100Ah	
Battery Pack Configuration	1P16S	1P32S
Battery Pack Quantity	12 Packs/Cluster	6 Packs/Cluster
Rated Current	50A	50A
Voltage Range	518.4~691.2V	518.4~691.2V
Rated Capacity	61.44kWh	61.44kWh
PV		
Max. Usable PV Input Power	19.2kW*2	19.2kW*2
Max. Input Current	32A*2	32A*2
Max. Short Circuit Current	50A*2	50A*2
Max. Input Voltage	850V	850V
MPPT Voltage Range	200V~830V	200V~830V
Start-up Voltage	250V	250V
MPPT Number	2	2
System		
Weight	1.5T	
Dimensions (W/D/H)	/	
Maximum Efficiency	≥85%	
Air Conditioning Power	2kW (Cooling), 1 kW (Heating)	
Temperature	-20℃~50℃ (De-Rating Over 45℃)	
Humidity	5%~95%RH (Non-Condensation)	
Protection Level	IP54	
Anti-corrosion Rating	C4	
Cooling Method	Air Cooling	
Noise	≤75dB	
Altitude	2000m (>2000m Derating)	
Display	LCD	
Fire Protection	Aerosol	
Communication	Ethernet	
Certification	CE, UN38.3	
Charge/Discharge Rate	0.5CP	
Depth Of Discharge	90%DOD	
Cycle Life	≥6000 Cycles (80% SOH @ Standard)	

C&I BESS Cabinet Solution

50kW/100kWh PV+Battery ESS All-in-one Cabinet

Safe and Reliable

LFP battery,multiple protection design， Long cycle life, slow degradation

Multiple Operation Modes

Supports simultaneous connections of load batteries, power grid, diesel generators, and photovoltaics

CCS Module Design

Flexible configuration and easy expansion

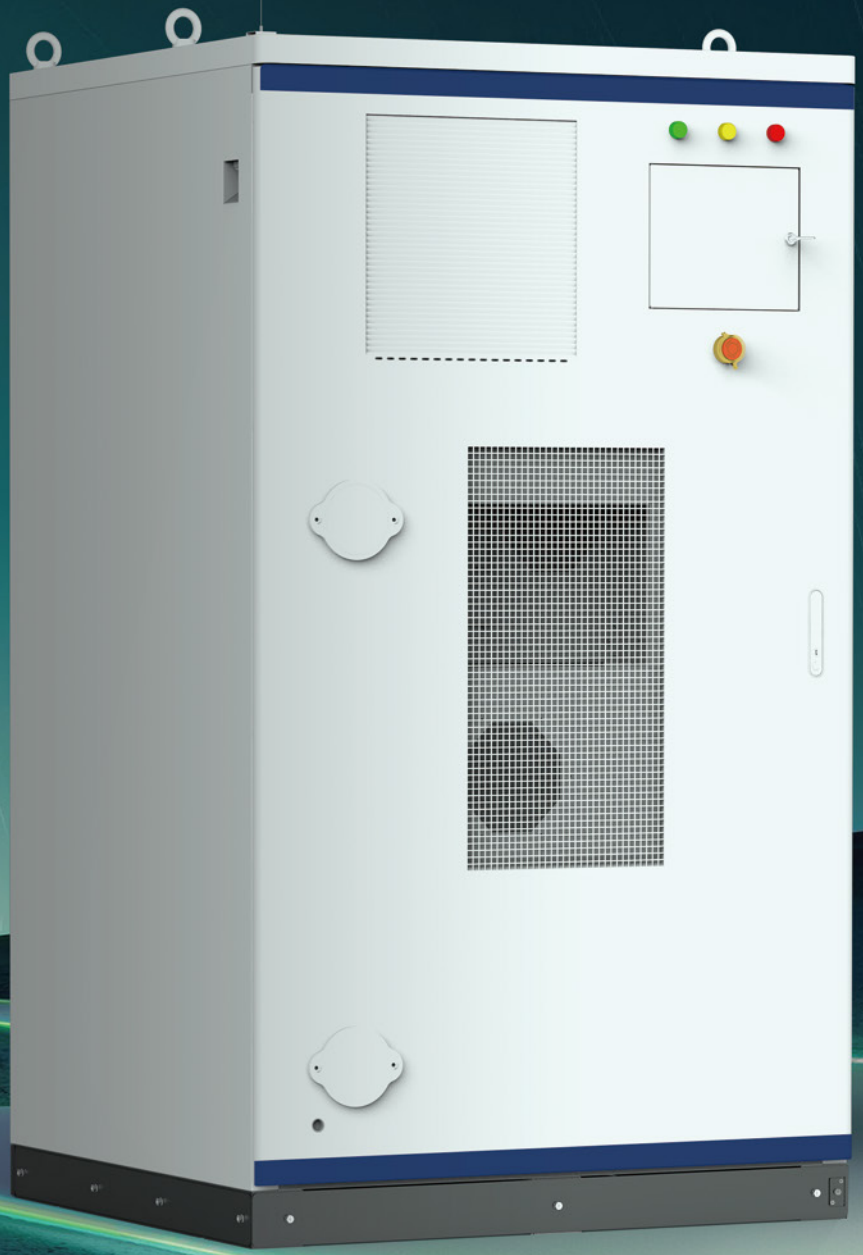
Flexible Switching Off-grid

Abundant PV+Diesel interfaces, flexible off-grid switching, easy installation

Model	HC100P-280
AC (On-grid)	
Rated Power	50kW
Maximum Current	72A
Rated Voltage	400V
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
Power Factor	0.8 (Leading)~0.8 (Lagging)
THDi	≤3%
AC (Off-grid)	
Rated Power	50kW
Rated Voltage	400V
Maximum Current	72A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	<2%
Battery	
Battery Type	LiFePO4
Battery Cell	3.2V/280Ah
Battery Pack Configuration	1P16S
Battery Pack Quantity	7 Packs/Cluster
Rated Current	140A
Voltage Range	302.4~403.2V
Rated Capacity	100.352kWh
PV	
Max. Usable PV Input Power	96kW
Max. Input Current	40A*4
Max. Short Circuit Current	60A*4
Max. Input Voltage	1000V
MPPT Voltage Range	150~850V
Start-up Voltage	180V
MPPT Number	4
System	
Weight	1.5T
Dimensions (W/D/H)	650*1100*2150mm
Maximum Efficiency	≥85%
Air Conditioning Power	2kW (Cooling), 1 kW (Heating)
Temperature	-20℃~50℃ (De-Rating Over 45℃)
Humidity	5%~95%RH (Non-Condensation)
Protection Level	IP54
Anti-corrosion Rating	C4
Cooling Method	Air Cooling
Noise	≤75dB
Altitude	2000m (>2000m Derating)
Display	LCD
Fire Protection	Aerosol
Communication	Ethernet
Certification	CE, UN38.3
Charge/Discharge Rate	0.5CP
Depth Of Discharge	90%DOD
Cycle Life	≥6000 Cycles (80% SOH @ Standard)

C&I BESS Cabinet Solution

60kW/129kWh PV+Battery ESS All-in-one Cabinet



Safe and Reliable

LFP battery,multiple protection design

CCS Module Design

Flexible configuration and easy expansion

Multiple Operation Modes

Supports simultaneous connections of load batteries, power grid, diesel generators, and photovoltaics

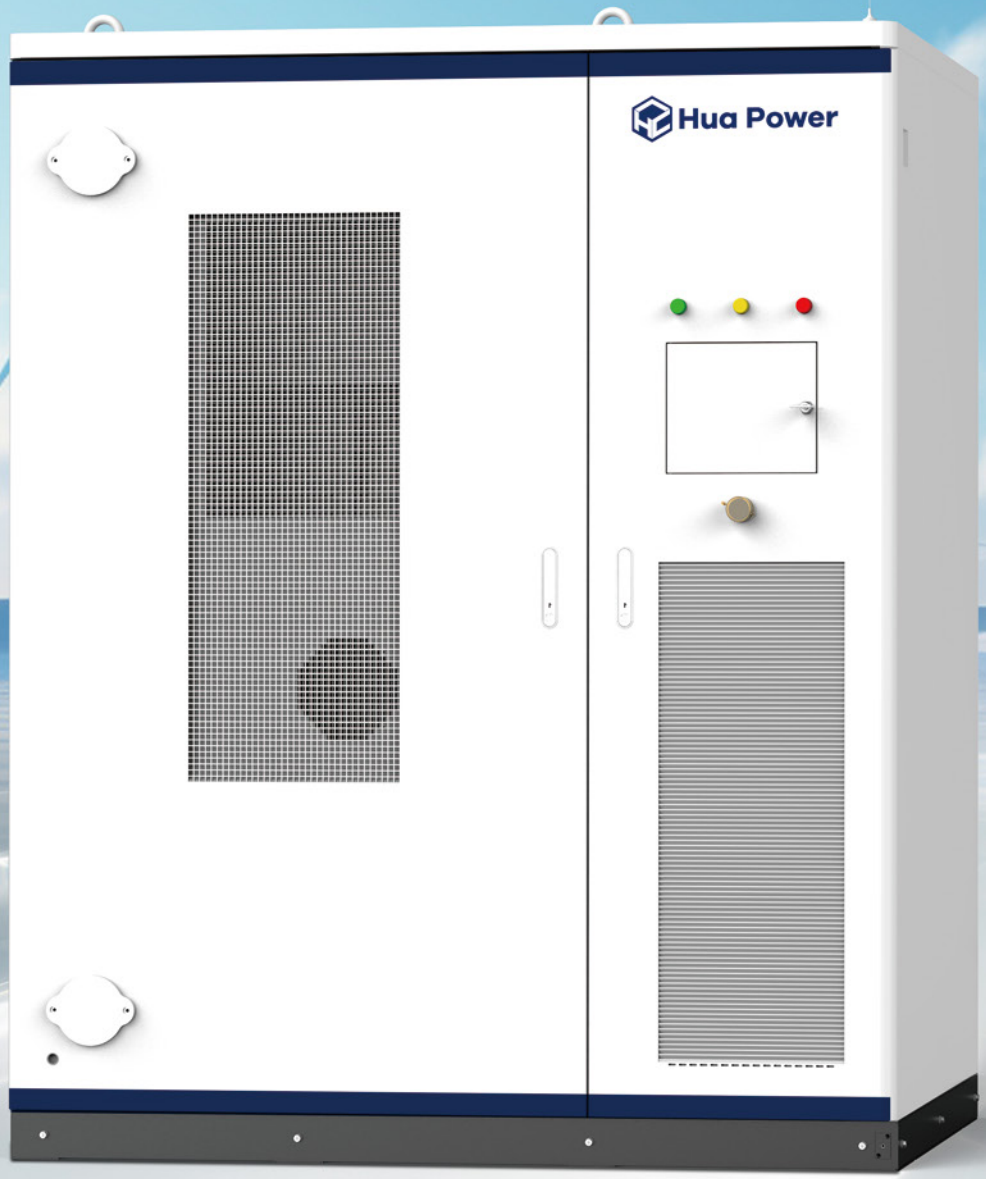
User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications

Model	HC129P
AC (On-grid)	
Rated Power	60kW
Maximum Current	87A
Rated Voltage	400V
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
Power Factor	0.8 (Leading)~0.8 (Lagging)
THDi	<5% (>30% Rated Power)
AC (Off-grid)	
Rated Power	60kW
Rated Voltage	400V
Maximum Current	87A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	<3% (Linear Load)
Battery	
Battery Type	LiFePO4
Battery Cell	3.2V/280Ah
Battery Pack Configuration	1P16S
Battery Pack Quantity	9 Packs/Cluster
Rated Current	140A
Voltage Range	388.8~518.4V
Rated Capacity	129.024kWh
PV	
Max. Usable PV Input Power	19.2kW*4
Max. Input Current	32A*4
Max. Short Circuit Current	50A*4
Max. Input Voltage	850V
MPPT Voltage Range	200V~830V
Start-up Voltage	250V
MPPT Number	4
System	
Weight	1.5T
Dimensions (W/D/H)	1200*1100*2100mm
Maximum Efficiency	≥85%
Air Conditioning Power	2kW (Cooling), 1 kW (Heating)
Temperature	-20℃~50℃ (De-Rating Over 45℃)
Humidity	5%~95%RH (Non-Condensation)
Protection Level	IP54
Anti-corrosion Rating	C4
Cooling Method	Air Cooling
Noise	≤75dB
Altitude	2000m (>2000m Derating)
Display	LCD
Fire Protection	Aerosol
Communication	Ethernet
Certification	CE, UN38.3
Charge/Discharge Rate	0.5CP
Depth Of Discharge	90%DOD
Cycle Life	≥6000 Cycles (80% SOH @ Standard)

C&I BESS Cabinet Solution

100kW/215KWh PV+Battery ESS All-in-one Cabinet



Safe and Reliable

LFP battery,multiple protection design
Long cycle life, slow degradation

CCS Module Design

Flexible configuration and easy expansion

Short Response Time

System response time<20ms, full power and auxiliary service demand

User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications

Flexible Switching Off-grid

Support multi-machine parallel, support-grid-connected or off-grid operation,optional photovoltaic, diesel generators, etc

Model	HC215P	HC215 (AC Coupled)
AC (On-grid)		
Rated Power	105kW	100kW
Maximum Current	167A	158.76A
Rated Voltage	400V	
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
Power Factor	1 (Leading)~1 (Lagging)	
THDi	<2% (Rated Power)	
AC (Off-grid)		
Rated Power	105kW	100kW
Rated Voltage	400V	
Maximum Current	167A	158.76A
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
THDu	<3% (Linear Load)	
Battery		
Battery Type	LiFePO4	
Battery Cell	3.2V/280Ah	
Battery Pack Configuration	1P16S	1P48S
Battery Pack Quantity	15 Packs/Cluster	5 Packs/Cluster
Rated Current	140A	
Voltage Range	648~864V	
Rated Capacity	215.04KWh	
PV		
Max. Usable PV Input Power	120kW	/
Max. Input Current	50A*4	/
Max. Short Circuit Current	60A*4	/
Max. Input Voltage	900V	/
MPPT Voltage Range	200V-850V	/
Start-up Voltage	250V	/
MPPT Number	4	/
System		
Weight	2.8T	2.5T
Dimensions (W/D/H)	1800*1100*2250mm	1600*1103*2254mm
Maximum Efficiency	≥85%	
Air Conditioning Power	3kW (Cooling), 2.5 kW (Heating)	
Temperature	-20℃~50℃ (De-Rating Over 45℃)	
Humidity	5%~95%RH (Non-Condensation)	
Protection Level	IP54	
Anti-corrosion Rating	C4	
Cooling Method	Air Cooling	
Noise	≤75dB	
Altitude	2000m (>2000m Derating)	
Display	LCD	
Fire Protection	FK-5-1-12	
Communication	Ethernet	
Certification	CE, UN38.3	
Charge/Discharge Rate	0.5CP	
Depth Of Discharge	90%DOD	
Cycle Life	≥6000 Cycles (80% SOH @ Standard)	

C&I BESS Cabinet Solution

110kW/233kWh~250kW/522kWh All-in-one Liquid Cooling Cabinet BESS

CCS Module Design

Flexible configuration and easy expansion

Safe and Reliable

LFP battery,multiple protection design , Long cycle life, slow degradation

Strong Applicability

IP54-rated protection, C4 anti-corrosion level,standard cabinet design

High Expandability

Multiple parallel units can be AC converged without circulating current

High-degree Integration

Saves 15%~25% of floor space

Model	HC233L	HC261L	HC522L
AC (On-grid)			
Rated Power	110kW	125kW	250kW
Maximum Current	174.65A	198.47A	396.94A
Rated Voltage	400V		
Wiring Method	3P4L+PE		
Frequency	50Hz/60Hz		
Power Factor	1 (Leading)~1 (Lagging)		
THDi	<3% (Rated Power)	<2% (Rated Power)	<3% (Rated Power)
AC (Off-grid)			
Rated Power	110kW	125kW	250kW
Rated Voltage	400V		
Maximum Current	174.65A	198.47A	396.94A
Wiring Method	3P4L+PE		
Frequency	50Hz/60Hz		
Unbalanced Load	100%		
THDu	<3% (Linear Load)		
Battery			
Battery Type	LiFePO4		
Battery Cell	3.2V/280Ah	3.2V/314Ah	
Battery Pack Configuration	1P52S		
Battery Pack Quantity	5 Packs/Cluster		5 Packs/Cluster*2
Rated Current	140A	157A	157A*2
Voltage Range	676~949V	702~936V	689~949V
Rated Capacity	232.96kWh	261.25kWh	522.50kWh
System			
Weight	≤3500kg	≤3500kg	≤5000kg
Dimensions (W/D/H)	1050*1350*2500mm	1550*1400*2100mm	1950*1300*2300mm
Maximum Efficiency	≥87%	≥87%	≥87%
Temperature	-30~55℃ (De-rating over 45℃)		
Humidity	5%~95%RH (Non-Condensation)		
Protection Level	IP54		
Anti-corrosion Rating	C4		
Cooling Method	Liquid Cooling		
Noise	≤75dB		
Altitude	≤2000m		
Display	LCD		
Fire Protection	FK-5-1-12		
Communication	Ethernet/CAN/RS485 4G (optional)		
Certification	CE, UN38.3		
Charge/Discharge Rate	0.5CP		
Depth Of Discharge	90%DOD		
Cycle Life	≥6000 Cycles (80% SOH @ Standard)		

C&I BESS Cabinet Solution

300kW/645kWh~500kW/1075kWh Air Cooling Distributed Cabinet BESS

Safe and Reliable

LFP battery,multiple protection design， Long cycle life, slow degradation

CCS Module Design

Flexible configuration and easy expansion

High Compatibility

215kWh battery cabinet, DC part can be compatible with 186kWh~1075kWh, AC part can be compatible with 100kW~500kW

User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications

Model	HC645S	HC860S	HC1075S
AC (On-grid)			
Rated Power	300kW	400kW	500kW
Maximum Current	476A	635A	794A
Rated Voltage	400V		
Wiring Method	3P4L+PE		
Frequency	50Hz/60Hz		
Power Factor	1 (Leading)~1 (Lagging)		
THDi	<2% (Rated Power)		
AC (Off-grid)			
Rated Power	300kW	400kW	500kW
Rated Voltage	400V		
Maximum Current	476A	635A	794A
Wiring Method	3P4L+PE		
Frequency	50Hz/60Hz		
THDu	<3% (Linear Load)		
Battery			
Battery Type	LiFePO4		
Battery Cell	3.2V/280Ah		
Battery Pack Configuration	1P16S		
Battery Pack Quantity	15 Packs/Cluster		
Battery Cluster Quantity	3 Clusters	4 Clusters	5 Clusters
Rated Current	140A*3	140A*4	140A*5
Voltage Range	648~864V		
Rated Capacity	645.12kWh	860.16kWh	1075.20kWh
System			
Weight	<9T	<11.5T	<14T
Dimensions (W/D/H)	1212*1104*2321mm*3+1850*1100*2330mm	1212*1104*2321mm*4+1850*1100*2330mm	1212*1104*2321mm*5+1850*1100*2330mm
Maximum Efficiency	≥85%		
Air Conditioning Power	3kW (Cooling), 2.5 kW (Heating)*3	3kW (Cooling), 2.5 kW (Heating)*4	3kW (Cooling), 2.5 kW (Heating)*5
Temperature	-20℃~50℃ (De-Rating Over 45℃)		
Humidity	5%~95%RH (Non-Condensation)		
Protection Level	IP54		
Anti-corrosion Rating	C4		
Cooling Method	Air Cooling		
Noise	≤75dB		
Altitude	2000m (>2000m Derating)		
Display	HMI		
Fire Protection	Aerosol		
Communication	Ethernet		
Certification	CE, UN38.3		
Charge/Discharge Rate	0.5CP		
Depth Of Discharge	90%		
Cycle Life	≥6000 Cycles (80% SOH @ Standard)		

C&I BESS Container Solution

500kW/1075kWh PV+Battery Integrated Container BESS

User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications

Safe and Reliable

Thermal management system real-time accurate temperature control, electric core temperature difference <3℃, multiple fire protection system, multi-level defense and control

Flexible Switching Off-grid

Support multi-units parallel, support grid-connected or off-grid operation,optional photovoltaic, diesel generators, etc

Short Response Time

System response time<20ms, full power and auxiliary service demand

Model	HC1075P
AC (On-grid)	
Rated Power	500kW
Maximum Current	794A
Rated Voltage	400V
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
Power Factor	1 (Leading)~1 (Lagging)
THDi	≤3% (Rated Power)
AC (Off-grid)	
Rated Power	500kW
Rated Voltage	400V
Maximum Current	794A
Wiring Method	3P4L+PE
Frequency	50Hz/60Hz
THDu	≤2% (Linear Load)
Battery	
Battery Type	LiFePO4
Battery Cell	3.2V/280Ah
Battery Pack Configuration	1P16S*5
Battery Pack Quantity	15 Packs/Cluster*5
Rated Current	140A*5
Voltage Range	648~864V
Rated Capacity	1075.2KWh
PV	
Max. Usable PV Input Power	400kW
Max. Input Current	130A*8
Max. Short Circuit Current	/
Max. Input Voltage	900V
MPPT Voltage Range	250V-800V
Start-up Voltage	250V
MPPT Number	8
System	
Weight	15T
Dimensions (W/D/H)	6058*2438*2896mm
Maximum Efficiency	≥85%
Air Conditioning Power	25kW (Cooling), 9kW (Heating)
Temperature	-20℃~50℃ (De-Rating Over 45℃)
Humidity	5%~95%RH (Non-Condensation)
Protection Level	IP54
Anti-corrosion Rating	C4
Cooling Method	Air Cooling
Noise	≤75dB
Altitude	2000m (>2000m Derating)
Display	HMI
Fire Protection	FM-200
Communication	Ethernet
Certification	CE, UN38.3
Charge/Discharge Rate	0.5CP
Depth Of Discharge	90%DOD
Cycle Life	≥6000 Cycles (80% SOH @ Standard)

C&I BESS Cabinet Solution

500kW/1075kWh(0.5C)~1MW/1.1MWh(1C) All-in-one Air Cooling Container BESS

Scaled Energy Storage

High power and large capacity integration

Safe and Reliable

LFP battery,multiple protection design， Long cycle life, slow degradation

User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications

Customizable

Customized solutions according to customer needs, accurately matching different industrial and commercial energy use scenarios

Model	HC1075A	HC1100A
AC (On-grid)		
Rated Power	500kW	1MW
Rated Voltage	400V	
Maximum Current	794A	1588A
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
Power Factor	1 (Leading)~1 (Lagging)	
THDi	≤3% (Rated Power)	
AC (Off-grid)		
Rated Power	500kW	1MW
Rated Voltage	400V	
Maximum Current	794A	1588A
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
THDu	≤2% (Linear Load)	
Battery		
Battery Type	LiFePO4	
Battery Cell	3.2V/280Ah	3.2V/120Ah
Battery Pack Configuration	1P16S	2P16S
Battery Pack Quantity	15 Packs/Cluster	
Battery Cluster Quantity	5 Clusters	6 Clusters
Rated Current	140A*5	240A*6
Voltage Range	648~864V	
Rated Capacity	1075.20kWh	1105.92kWh
System		
Weight	15T	19.5T
Dimensions (W/D/H)	6058*2438*2896mm	
Maximum Efficiency	≥85%	
Liquid Cooling Power	25kW (Cooling), 9kW (Heating)	40kW (Cooling), 9kW (Heating)
Temperature	-20℃~50℃ (De-Rating Over 45℃)	
Humidity	5%~95%RH (Non-Condensation)	
Protection Level	IP54	
Anti-corrosion Rating	C4	
Cooling Method	Air Cooling	
Noise	≤75dB	
Altitude	3000m (>3000m Derating)	
Display	HMI	
Fire Protection	FM-200	
Communication	Ethernet	
Certification	CE, UN38.3	
Charge / Discharge Rate	0.5CP	1CP
Depth Of Discharge	90%	
Cycle Life	≥6000 Cycles (80% SOH @ Standard)	

C&I BESS Container Solution

1MW/1.72MWh~1MW/2.03MWh All-in-one Liquid Cooling Container BESS

Scaled Energy Storage

High power and large capacity integration

Safe and Reliable

LFP battery,multiple protection design， Long cycle life, slow degradation

User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications

Customizable

Customized solutions according to customer needs, accurately matching different industrial and commercial energy use scenarios

Model	HC1720L	HC2000L
AC (On-grid)		
Rated Power	1MW	
Rated Voltage	400V	
Maximum Current	1588A	
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
Power Factor	1 (Leading)~1 (Lagging)	
THDi	≤3% (Rated Power)	
AC (Off-grid)		
Rated Power	1MW	
Rated Voltage	400V	
Maximum Current	1588A	
Wiring Method	3P4L+PE	
Frequency	50Hz/60Hz	
THDu	≤2% (Linear Load)	
Battery		
Battery Type	LiFePO4	
Battery Cell	3.2V/280Ah	3.2V/306Ah
Battery Pack Configuration	1P48S	1P52S
Battery Pack Quantity	5 Packs/Cluster	
Battery Cluster Quantity	8 Clusters	
Rated Current	140A*8	153A*8
Voltage Range	648~864V	702~936V
Rated Capacity	1720.32kWh	2036.736kWh
System		
Weight	22.5T	≤30T
Dimensions (W/D/H)	6058*2438*2896mm	6608*2600*2896mm
Maximum Efficiency	≥87%	
Liquid Cooling Power	45kW (Cooling), 9kW (Heating)	45kW (Cooling), 16kW (Heating)
Temperature	-30~55℃ (De-rating over 45℃)	
Humidity	5%~95%RH (Non-Condensation)	
Protection Level	IP54	
Anti-corrosion Rating	C4	
Cooling Method	Liquid Cooling	
Noise	≤75dB	
Altitude	≤2000m	
Display	HMI	
Fire Protection	FM-200	
Communication	Ethernet	
Certification	CE, UN38.3	
Charge / Discharge Rate	0.5CP	
Depth Of Discharge	90%	
Cycle Life	≥6000 Cycles (80% SOH @ Standard)	

Utility Scale BESS Solution

3.72MWh(1C)~5.01MWh(0.5C/0.25C) Liquid Cooling Container BESS

Scaled Energy Storage

High power and large capacity integration

Short Response Time

System response time<20ms, full power and auxiliary service demand

Safe and Reliable

LFP battery,multiple protection design， Long cycle life, slow degradation

User-friendly

Intelligent remote operation and maintenance, visualization platform for real-time monitoring, suitable for full-scene applications

Customizable

Customized solutions according to customer needs, accurately matching different industrial and commercial energy use scenarios

Model	HC3720L	HC4180L	HC5010L
Battery			
Battery Type	LiFePO4	LiFePO4	LiFePO4
Battery Cell	3.2V/280Ah	3.2V/314Ah	3.2V/314Ah
Battery Pack Configuration	1P52S	1P104S	1P104S
Battery Pack Quantity	8 Packs/Cluster	4 Packs/Cluster	4 Packs/Cluster
Battery Cluster Quantity	10 Clusters	10 Clusters	12 Clusters
Rated Current	140A*10	157A*10	157A*12
Voltage Range	1165~1500V	1165~1500V	1123.2~1497.6V
Rated Capacity	3727.36kWh	4179.96kWh	5015.96kWh
System			
Weight	≤38T	≤37T	≤44T
Dimensions (W/D/H)	6058*2438*2896mm		
Maximum Efficiency	≥87%		
Temperature	-30~45℃	-30~45℃	-30~50℃
Humidity	≤95%RH (Non-Condensation)	≤100%RH (Non-Condensation)	≤100%RH (Non-Condensation)
Protection Level	IP55	IP55	IP54
Anti-corrosion Rating	C4		
Cooling Method	Liquid Cooling		
Noise	≤85dB	≤70dB	≤75dB
Altitude	≤2000m	≤2000m	≤4000m
Display	HMI		
Fire Protection	Dry pipes with sprinklers, Aerosol (Optional)		
Communication	Ethernet		
Certification	UN38.3, UN3536, IEC 61000-6-2&-4, IEC 62477, IEC 62619&63056	IEC 62619, IEC 63056, IEC 62933 etc.	UL 1973, UL 9540A, UL 9540, UN 38.3, compliant to NFPA 855, NEC 2023, NFPA 70E, etc.
Charge/Discharge Rate	1CP	0.5CP	0.5CP/0.25CP
Depth Of Discharge	90%		
Cycle Life	≥6000 Cycles (80% SOH @ Standard)		

Project Reference Photos

Burg, Czech | Energy Storage Company

6MW/10.32MWh

Liquid Cooling Energy Storage Project

Jinhua, Zhejiang | Jewelry Processing Company

2MW/4MWh

Distributed ESS Container

Dongguan, Guangdong
Medical Equipment Company

1MW/2MWh

Air Cooling Energy Storage Project

Belgium | Industrial Park

250kW/1MWh

PV+ESS and EV Charger Integration Project

Indiana, USA

19.2MW/46.9MWh

Utility Scale BESS

California, USA

10MW/69MWh

Utility Scale BESS

Dezhou, Shandong
Wire Harness Processing Company

160kW/335kWh

Air Cooling Energy Storage Projects

Zhejiang, China, Industrial Zone

2MW/4MWh

Peak Shaving and Valley Filling